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"secure processing" cryptographic key device

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Public key data communications system under control of a portable security device - all 3 versions »

GM Dolan, CJ Holloway, SM Matyas Jr - US Patent 5,604,801, 1997 - Google Patents

... the server is secured by **cryptographic** 35 means ... embodiments, the **key** encrypting

is cryptographically ... be processed and the **secure processing** means comprises ...

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System and method for trusted path communications - all 3 versions »

WE Boebert - US Patent 5,499,297, 1996 - Google Patents

... such as workstations, connected over a network to a security server; each data enclave is assigned a **cryptographic key**. A personal keying **device** having an ...

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Dynamic configuration of a secure processing unit for operations in various environments - all 3 versions »

A Van Le, WB Sweet, HC Herbert - US Patent 5,883,956, 1999 - Google Patents

... are generally known as **Secure Processing Units** (SPUs ... inside the protected boundaries

of the **cryptographic device**. This **device** authentication **key** is registered ...

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book] Dyad: A System for Using Physically Secure Coprocessors - all 8 versions »

JD Tygar, BS Yee - 1991 - cs.cmu.edu

... Another approach to physically **secure processing** appears in smart-cards [30 ... two secure

coprocessors by using a **key** exchange **cryptographic** protocol and ...

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Data enclave and trusted path system

US Patent 5,502,766, 1996 - patentstorm.us

... 713/189 DATA PROCESSING PROTECTION USING CRYPTOGRAPHY. ... 4888801

Hierarchical **key**

management system Issued on ... The system includes a **secure processing** unit which ...

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Uniform interface for cryptographic services - all 2 versions »

JT Marino Jr, PA Lambert - US Patent 5,029,206, 1991 - Google Patents

... The **secure processing** system includes a processor for ... 40 notifies KSM 20 when the **cryptographic** association has ... order to provide service for **key** management re ...

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QM PROCESSING - IEEE MICRO, 1732 - doi.ieeeecs.org

... Permutations play a prominent role in the **secure processing** of information and in ... permutations, which are useful in symmetric-key **cryptographic** algorithms for ...

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... processing. These assumptions may be falsified: for example, attackers may exhaustively search **cryptographic key** spaces. Similarly ...

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A Van Le, WB Sweet, HC Herbert - US Patent 5,883,956, 1999 - Google Patents

... communication are generally known as **Secure Processing Units** (SPUs ... keys, 3Q and a

"**cryptographic engine**" for ... Digital Signatures and Public-Key Cryptosystems" by ...

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GM Dolan, CJ Holloway, SM Matyas Jr - US Patent 5,604,801, 1997 - Google Patents

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JT Marino Jr, PA Lambert - US Patent 5,029,206, 1991 - Google Patents

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N Asokan

Device keys - all 3 versions »

N Asokan, N Valtteri - 2004 - freepatentsonline.com

... be used by applications included in a **personal device**. ... cellular telephones and hand-held **PDA:s** (Personal ... The document describes a "**Secure Processing Unit**" (SPU ...

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Implementation of an integrity-protected secure storage - all 2 versions »

N Asokan, JE Ekberg, L Paatero - 2006 - freepatentsonline.com

... the checksum value stored within the **personal device**. ... of state information and **secure processing** of applications ... portable electronic books, **PDA** devices, gaming ...

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D Maziore, M Kaminsky, MF Kaashoek, E Witchel - portal.acm.org

... This dialect makes the amount of **cryptographic** computation required from read- only ... cate through a serial port with a **PDA** that knows ... 2.5.2 User **key management** ...

Cited by 207 - [Related Articles](#) - [Web Search](#)

[\[PDF\] Key Management in Ad Hoc Networks - all 7 versions »](#)

K Fokine - MS Thesis, Linkoping University, Linkoping, Sweden, 2002 - cchen2.et.ntust.edu.tw

... such infrastructure less networks is how to manage the **cryptographic** keys that are needed. In order to design practical and efficient **key management** systems it ...

Cited by 16 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[The Long March to Interoperable Digital Rights Management - all 8 versions](#)

»

RH Koenen, J Lacy, M MacKay, S Mitchell - Proceedings of the IEEE, 2004 - ieeexplore.ieee.org

... system, or an indelible identifier or **key**), it is ... models, while trust policy implements risk **management**. ... eg, smart cards, hardware **cryptographic** processors, or ...

Cited by 33 - [Related Articles](#) - [Web Search](#)

[PGP in Constrained Wireless Devices - all 8 versions »](#)

M Brown, D Cheung, D Hankerson, JL Hernandez, M ... - unix.org

... by the constraints of the **PDA**, including limited ... and implement a workable **key management**

system and ... commercial-strength elliptic curve **cryptography** into PGP's ...

Cited by 78 - [Related Articles](#) - [Cached](#) - [Web Search](#)

[Efficient frequency domain selective scrambling of digital video - all 10 versions »](#)

W Zeng, S Lei - Multimedia, IEEE Transactions on, 2003 - ieeexplore.ieee.org

... powered handheld devices such as **PDA** and videophones. ... etc., without having to access

the **cryptographic key**. ... such as multimedia content **management** and filtering ...

Cited by 83 - [Related Articles](#) - [Web Search](#)

[\[PDF\] Group key establishment in wireless ad hoc networks - all 3 versions »](#)

ER Anton, O Duarte - Workshop em Qualidade de Servico e Mobilidade, 2002 - gta.ufrj.br

... telephones, digital personal assistants (**PDA**), auricular phones ... entities share a secret **cryptographic key** K. In ... suite consists of **key management** protocols for ...


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[PDF] [Local Key and Certificate Storage in JDK 1.3 - all 3 versions »](#)

O Pirttikoski, Y Kortnesniemi - Proceedings of the NordSec2000, Reykjavk, Iceland, October, 2000 - tml.hut.fi

... The benefits of using a **PDA** are due to the ... the device does not have to reveal the **key** as it can ... would be use- ful for applications using **cryptographic** keys and ...

Cited by 1 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[PDF] [Securing ad hoc Jini services - all 11 versions »](#)

P Eronen, C Gehrman, P Nikander - Helsinki University of Technology, 2002 - tml.tkk.fi

... For example, the user of a **PDA** can authorize ... so it can imple- ment the authenticated **key** exchange and ... it wishes, but should follow good **cryptographic** principles ...

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[Device keys - all 3 versions »](#)

N Asokan, N Valtteri - 2004 - freepatentsonline.com

... THE INVENTION [0002] The present invention relates to **key management** of **cryptographic**

keys, which ... such as cellular telephones and hand-held **PDA**:s (Personal ...

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[Method and apparatus for storing data on the application layer in mobile devices](#)

K Code, J Haller, S de Souza, L Moreira, VP Images ... - freepatentsonline.com

... the mobile device, eg a PocketPC based Personal Digital Assistant (**PDA**). ... 0046] The same **cryptographic** mechanism is ... of these files is the symmetric **key** used for ...

[Cached](#) - [Web Search](#)

[PDF] [Security analysis of the Open Mobile Alliance Device Management protocol](#)

KT Högsölan - dsv.su.se

... summarizes the current major **PDA** or smartphones ... XML security uses traditional **cryptography** algorithms to ... o XML **Key Management** (XKMS) describes the distribution ...

[View as HTML](#) - [Web Search](#)

[Proxy device for enhanced privacy in an RFID system](#)

A Juels, DV Bailey - 2006 - freepatentsonline.com

... telephone, a personal digital assistant (**PDA**), a mobile ... consider the REP as a trusted **personal device**. ... constraints could be capable of public-key **cryptography**. ...

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SHAD: a human centered security architecture for partitionable, dynamic and heterogeneous ... - all 7 versions »

ES Salvador - Proceedings of the 1st international doctoral symposium on ..., 2004 - portal.acm.org

... on the human and is based on a **personal device** called PCM ... There is no problem, because

Katia's **PDA** has the ... Separating **key management** from file system security ...

Cited by 4 - [Related Articles](#) - [Web Search](#)

Complete Computing - all 5 versions »

V Gupta, G Montenegro, J Rulifson - Worldwide Computing and Its Applications, WWCA'98: Second ..., 1998 - books.google.com

... portable, personal note- book or **PDA**) or communal ... MVPN mechanisms differ in the **key-**

management protocols they ... eliminates the need to carry a **personal device**. ...

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[PDF] Local Key and Certificate Storage in JDK 1.3 - all 3 versions »

O Pirttikoski, Y Kortensniemi - Proceedings of the NordSec2000, Reykjavk, Iceland, October, 2000 - tml.hut.fi

... remains a big obstacle hindering widespread use of cryptography, namely **key management**. ...

In particular, with small **personal device** such as a **PDA**, that are ...

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[PDF] Securing ad hoc Jini services - all 11 versions »

P Eronen, C Gehrmann, P Nikander - Helsinki University of Technology, 2002 - tml.tkk.fi

... For example, the user of a **PDA** can authorize other users within ... 3.3 Distributed **key management** ... In the case when the client device is a **personal device** and the ...

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... table summarizes the current major **PDA** or smartphones ... From a **personal device** point of view this enables ... o XML **Key Management** (XKMS) describes the distribution ...

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IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Wu, B.; Wu, J.; Fernandez, E.B.; Magliveras, S.;
[Parallel and Distributed Processing Symposium, 2005. Proceedings. 19th IEEE 4-8 April 2005](#) Page(s):8 pp.
Digital Object Identifier 10.1109/IPDPS.2005.393
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- ☐ 2. **Secure Key Management in Hierarchical Group Communication Using A**
Parvar, H.; Moulavi, M.A.;
[Innovations in Information Technology, 2006](#)
Nov. 2006 Page(s):1 - 5
Digital Object Identifier 10.1109/INNOVATIONS.2006.301917
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- ☐ 3. **Provably secure public key management protocols for self-organized ad**
Huafei Zhu; Feng Bao;
[Personal, Indoor and Mobile Radio Communications, 2005. PIMRC 2005. IEEE Symposium on](#)
Volume 4, 11-14 Sept. 2005 Page(s):2691 - 2695 Vol. 4
Digital Object Identifier 10.1109/PIMRC.2005.1651932
[AbstractPlus](#) | Full Text: [PDF\(1104 KB\)](#) IEEE CNF
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- ☐ 4. **Towards solving multicast key management problem**
Fan Du; Ni, L.M.; Esfahanian, A.-H.;
[Computer Communications and Networks, 1999. Proceedings. Eight Internati](#)
11-13 Oct. 1999 Page(s):232 - 236
Digital Object Identifier 10.1109/ICCCN.1999.805524
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 Reininger, R.;
[Tactical Communications Conference, 1994. Vol. 1. Digital Technology for the Proceedings of the 1994](#)
 10-12 May 1994 Page(s):387 - 388
 Digital Object Identifier 10.1109/TCC.1994.472108
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 Chitu, S.; Svasta, P.; Popescu, C.;
[Electronics Technology: Meeting the Challenges of Electronics Technology P: International Spring Seminar on](#)
 0-0 0 Page(s):480 - 484
 Digital Object Identifier 10.1109/ISSE.2005.1491076
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- ☐ 3. **Detecting Spoofing and Anomalous Traffic in Wireless Networks via For Relationships**
 Li, Q.; Trappe, W.;
[Information Forensics and Security, IEEE Transactions on](#)
 Volume 2, Issue 4, Dec. 2007 Page(s):793 - 808
 Digital Object Identifier 10.1109/TIFS.2007.910236
[AbstractPlus](#) | Full Text: [PDF\(1366 KB\)](#) IEEE JNL
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- ☐ 4. **Light-weight Detection of Spoofing Attacks in Wireless Networks**
 Qing Li; Trappe, W.;
[Mobile Adhoc and Sensor Systems \(MASS\), 2006 IEEE International Confere](#)
 Oct. 2006 Page(s):845 - 851
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- ☐ 1. **The OSD security protocol**
Factor, M.; Nagle, D.; Naor, D.; Riedel, E.; Satran, J.;
[Security in Storage Workshop, 2005. SISW '05. Third IEEE International](#)
13 Dec. 2005 Page(s):11 pp.
Digital Object Identifier 10.1109/SISW.2005.12
[AbstractPlus](#) | Full Text: [PDF](#)(312 KB) IEEE CNF
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- ☐ 2. **A security policy based upon hardware encryption**
Harper, S.; Athanas, P.;
[System Sciences, 2004. Proceedings of the 37th Annual Hawaii International](#)
5-8 Jan. 2004 Page(s):8 pp.
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Pope, N.; Cruellas, J.C.;
[Internet Computing, IEEE](#)
Volume 10, [Issue 5](#), Sept.-Oct. 2006 Page(s):81 - 84
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Bae Eun Jung;
[Communications Letters, IEEE](#)
Volume 10, [Issue 2](#), Feb. 2006 Page(s):106 - 107
Digital Object Identifier 10.1109/LCOMM.2006.02021.
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- ☐ 5. **Wireless Group Security Using MAC Layer Multicast**
Nyberg, Kaisa; Valkonen, Jukka;


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N Asokan, N Valtteri - 2004 - freepatentsonline.com

... should include at least one **cryptographic key** in order to enable, eg, future secure, **key** based communication between the **personal device** 100 and ...

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N Asokan, JE Ekberg, L Paatero - 2006 - freepatentsonline.com

... not match the checksum value stored within the **personal device**. ... is powered up, if this **key**-state variable ... book of "Handbook of Applied **Cryptography**" by Alfred J ...

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W Jansen - 2004 - freepatentsonline.com

... thumbnail image can serve as a shift **key** for every ... and iteratively applying the one-way **cryptographic** hash, as ... As a **personal device**, there is only one user of ...

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[\[PDF\] PRISM: Enabling Personal Verification of Code Integrity, Untampered Execution, and Trusted I/O on ...](#)

HVC Execution - cylab.cmu.edu

... private **key** is not misused and that neither the private **key** nor the ... and cannot be directly used by people – they require **cryptographic** operations and ...

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[A File System for System Programming in Ubiquitous Computing - all 10 versions »](#)

C Decker, M Beigl, A Krohn - Systems Aspects in Organic and Pervasive Computing--ARCS ..., 2005 - books.google.com

... Energy is one of the **key** resources for sensor ... location or data format requirements of the user's **personal device**. ... those middleware services is a **PDA**-like device ...

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[\[PDF\] RESET project Draft Roadmap](#)

D Public - feedback, 2003 - ercim.org

... short calculation times for the **cryptographic** procedures ... is considering innovation as a **key** factor for ... IC packaging and micro-module **assembly**, through existing ...

[View as HTML](#) - [Web Search](#)
[\[PDF\] Security analysis of the Open Mobile Alliance Device Management protocol](#)

KT Höskolan - dsv.su.se

... From a **personal device** point of view this enables ... however, XML security uses

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5	INZZ	secure ADJ process\$4	unrestricted	62	show titles
6	INZZ	cryptographic ADJ key\$1	unrestricted	541	show titles
7	INZZ	key ADJ management	unrestricted	1592	show titles
8	INZZ	cryptographic ADJ key\$1 NEAR assembly NEAR shipment	unrestricted	0	-
9	INZZ	cryptographic ADJ key\$1 SAME assembly SAME shipment	unrestricted	0	-
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16	INZZ	personal ADJ digital ADJ assistant OR mobile OR PDA OR cell OR phone	unrestricted	426394	show titles
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"secure processing" cryptographic key

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Patents

Patents 1 - 46 on **"secure processing" cryptographic key**. (0.05 seconds)

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Method and apparatus for secure processing of cryptographic keys

US Pat. 6557104 - Filed May 2, 1997 - Phoenix Technologies Ltd.

Secure processing of the **cryptographic key** is thus obtained without the need for any additional hardware. BRIEF DESCRIPTION OF THE DRAWINGS 25 The exact ...

Data communications system using public key cryptography in a web environment

US Pat. 6424718 - Filed Jun 11, 1997 - International Business Machines Corporation

Preferably, the **secure processing** means is operable, when executed in the ...
in the client via the **secure processing** means the **cryptographic key** processing ...

Uniform interface for cryptographic services

US Pat. 5029206 - Filed Dec 27, 1989 - Motorola, Inc.

A security kernel of a **secure processing** system for response to said means for **key** management to create, providing **cryptographic**, **key** management and system ...

Public key data communications system under control of a portable security ...

US Pat. 5604801 - Filed Feb 3, 1995 - International Business Machines Corporation

Server 130 generates in step 751 the following **cryptographic** keys for ... with a **key** encrypting **key**, the server comprising **secure processing** means (360) to ...

Dynamic configuration of a secure processing unit for operations in various ...

US Pat. 5883956 - Filed Mar 28, 1996 - National Semiconductor Corporation

More specifically, this invention relates to **cryptographic** techniques for ...
For instance, the identifying **key** or password that a bank customer uses to ...

Secure processor with external memory using block chaining and block re-ordering

US Pat. 6061449 - Filed Oct 10, 1997 - General Instrument Corporation

11 program information between a storage device and a **secure processing** circuit
... **Cryptographic key** data from an associated storage device may be used for ...

Programmable cryptographic processing system and method

US Pat. 6101255 - Filed Apr 30, 1997 - Motorola, Inc.

Tasks and subroutines that perform **secure processing** or handle sensitive data
... Examples of other application software running would include session **key** ...

Method and system for managing data unit processing

US Pat. 6081895 - Filed Oct 10, 1997 - Motorola, Inc.

The present invention also provides a **cryptographic** controller and method which are
... that do not perform **secure processing** or handle sensitive data. ...

Apparatus for providing a secure processing environment

US Pat. 6385727 - Filed Sep 25, 1998 - Hughes Electronics Corporation

An explanation of many such **cryptographic** techniques including an ... Thus, the

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"secure processing" (device OR PDA OR mob

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Method and apparatus for secure processing of cryptographic keys

US Pat. 6557104 - Filed May 2, 1997 - Phoenix Technologies Ltd.

Secure processing of the **cryptographic key** is thus obtained without the need for ... The "token" may include any type of removable physical storage **device**, ...

Data communications system using public key cryptography in a web environment

US Pat. 6424718 - Filed Jun 11, 1997 - International Business Machines Corporation

A portable security **device** controls the public **key** processing by ... in the client via the **secure processing** means the **cryptographic key** processing for the ...

Public key data communications system under control of a portable security ...

US Pat. 5604801 - Filed Feb 3, 1995 - International Business Machines Corporation

Server 130 generates in step 751 the following **cryptographic** keys for ... with a **key** encrypting **key**, the server comprising **secure processing** means (360) to ...

Dynamic configuration of a secure processing unit for operations in various ...

US Pat. 5883956 - Filed Mar 28, 1996 - National Semiconductor Corporation

The signing process is performed securely inside the protected boundaries of the **cryptographic device**. This **device** authentication **key** is registered with the ...

Secure processor with external memory using block chaining and block re-ordering

US Pat. 6061449 - Filed Oct 10, 1997 - General Instrument Corporation

11 program information between a storage **device** and a **secure processing** circuit ... **Cryptographic key** data from an associated storage **device** may be used for ...

Apparatus for providing a secure processing environment

US Pat. 6385727 - Filed Sep 25, 1998 - Hughes Electronics Corporation

An explanation of many such **cryptographic** techniques including an explanation ... If a hacker is able to fool a **device** containing **key** material into entering ...

Method and apparatus for centralizing processing of key and certificate life ...

US Pat. 6055636 - Filed Jan 27, 1998 - Entrust Technologies, Limited

The **secure processing** module 28 secures the data provided by one of the applications 36, but does not perform the **key** and certificate life cycle ...

Secure processing for authentication of a wireless communications device

US Pat. 6201871 - Filed Aug 19, 1998 - Qualcomm Incorporated

The **device** 100 and the secure processor 104 generate an A-Key. ... In another form of authentication, the **mobile** switching center may broadcast the ...

Secure processing unit systems and methods

US Pat. 7124170 - Filed Aug 21, 2000 - Intertrust Technologies Corp.

They are also non-intrusive to the overall **device** architecture and ... a unique

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(secure processing) with (device OR PDA) wi

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Patents 1 - 10 on (secure processing) with (device OR PDA). (0.06 seconds)

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Secure processing for authentication of a wireless communications device

US Pat. 6201871 - Filed Aug 19, 1998 - Qualcomm Incorporated

Secure ... device ...

Data processing device formed on a single semiconductor substrate having ...

US Pat. 4521852 - Filed Jun 30, 1982 - Texas Instruments Incorporated

United States Patent Gutttag [] Patent Number: [45] Date of Patent: [54] DATA

PROCESSING DEVICE FORMED ON A SINGLE SEMICONDUCTOR SUBSTRATE HAVING SECURE ...

Secure gateway processing for handheld device markup language (HDML)

US Pat. 6334056 - Filed May 28, 1999 - Qwest Communications Int'l., Inc.

25,2001 Sheet of WIRELESS HANDHELD **DEVICE** ATTEMPTS TO ACCESS CORPORATE INTRANET FROM A KNOWN IRELESS SERVIC ...

Method and apparatus for centralizing processing of key and certificate life ...

US Pat. 6055636 - Filed Jan 27, 1998 - Entrust Technologies, Limited

1 illustrates a schematic block diagram of a **secure** communication **device** 10 or ... The **secure processing** module 28 secures the data provided by one of the ...

Gaming device security system: apparatus and method

US Pat. 6364769 - Filed May 22, 2000 - Casino Data Systems

The gaming 15 **device** is based around the **secure processing** area which includes a random number generator, an accounting and log means operatively coupled to ...

Method and apparatus for operating a secure metering device

US Pat. 6341274 - Filed Jul 21, 1999 - Neopost Inc.

The **secure processing** is performed by circuitry within the metering **device** to which the smartcard is inserted. In an embodiment, for each **secure** transaction ...

Apparatus for providing a secure processing environment

US Pat. 6385727 - Filed Sep 25, 1998 - Hughes Electronics Corporation

In other words, for a **device** to be deemed **secure**, an attacker having access to all ... a **secure processing** environment is provided. The apparatus includes a ...

Gaming device security system: apparatus and method

US Pat. 6071190 - Filed May 21, 1997 - Casino Data Systems

For one thing, the present invention provides a video and slot gaming **device** security system including two **processing** areas linked together via a **secure** ...

Method and apparatus for performing secure processing of postal data

US Pat. 6381589 - Filed Dec 16, 1999 - Neopost Inc.

Local host computer 210 includes a **secure processing** unit 240 that 5 ... I/O 45 output devices such as a printer 330 and a communication (comm) **device** 360. ...

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Patents

Patents 1 - 10 on (secure processing) with (device OR PDA). (0.06 seconds)

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